



(19)

(11) Publication number:

**05081717 A**

Generated Document.

**PATENT ABSTRACTS OF JAPAN**(21) Application number: **04074605**(51) Intl. Cl.: **G11B 11/10**(22) Application date: **30.03.92**(30) Priority: **17.04.91 JP 03 85503**(43) Date of application  
publication: **02.04.93**(84) Designated contracting  
states:(71) Applicant: **SHARP CORP**

(72) Inventor: **TAKAHASHI AKIRA**  
**MURAKAMI YOSHITERU**  
**NAKAJIMA JUNSAKU**  
**OTA KENJI**  
**NAKAYAMA JUNICHIRO**  
**KATAYAMA HIROYUKI**  
**SAEGUSA MICHINOBU**

(74) Representative:

**(54) MAGNETO-OPTICAL  
 RECORDING MEDIUM AND  
 RECORDING METHOD  
 THEREOF**

(57) Abstract:

**PURPOSE:** To easily execute recording and overwriting of information by having the characteristics to exhibit intra-surface magnetization at room temp. and to shift from the intra-surface magnetization to perpendicular magnetization when the temp. is raised to a prescribed temp. by irradiation with a light beam.

**CONSTITUTION:** The magneto-optical disk laminated with a substrate 1, a transparent dielectric substance 2, a reading out layer 3, a recording layer 4, a transparent dielectric film 5, and an over coat film 9 in this order is provided. The magnetic moments of the rare earth metal and transition metal of the rare earth metal-transition metal to be

used as the reading out layer 3 vary respectively in temp. characteristics. While the intra-surface magnetization is exhibited at room temp., the magnetic moment of the rare earth metal increases to the magnetic moment larger than the magnetic moment of the rare earth metal when the temp. is raised to the prescribed temp. or above by the irradiation with the light beam. The magnetic moment of the magnetic disk exhibits the characteristic to shift from the intra-surface magnetization to the perpendicular magnetization. Consequently, the recording density of the magneto-optical disk is increased and, therefore, the recording and overwriting of the information can be easily executed.

COPYRIGHT: (C)1993,JPO&Japio

